POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow
Organisation Unit: Queensland Brain Institute
Position Number: 3041222
Type of Employment: Full time, fixed term till 31 December 2020
Classification: Academic Research Level A

THE UNIVERSITY OF QUEENSLAND

The University of Queensland (UQ) contributes positively to society by engaging in the creation, preservation, transfer and application of knowledge. UQ helps shape the future by bringing together and developing leaders in their fields to inspire the next generation and to advance ideas that benefit the world. UQ strives for the personal and professional success of its students, staff and alumni. For more than a century, we have educated and worked with outstanding people to deliver knowledge leadership for a better world.

UQ ranks in the world’s top universities, as measured by several key independent ranking, including the CWTS Leiden Ranking (32), the Performance Ranking of Scientific Papers for World Universities (40), the US News Best Global Universities Rankings (42), QS World University Rankings (47), Academic Ranking of World Universities (54), and the Times Higher Education World University Rankings (66). Excluding the award component, UQ is now ranked 45th in the world in the ARWU, and is one of the only two Australian universities to be included in the global top 50.

UQ has an outstanding reputation for the quality of its teachers, its educational programs and employment outcomes for its students. Our students remain at the heart of what we do. The UQ experience – the UQ Advantage – is distinguished by a research enriched curriculum, international collaborations, industry engagement and opportunities that nurture and develop future leaders. UQ has a strong focus on teaching excellence, winning more national teaching excellence awards than any other in the country and attracting the majority of Queensland's highest academic achievers, as well as top interstate and overseas students.

UQ is one of Australia's Group of Eight, a charter member of edX and a founding member of Universitas 21, an international consortium of leading research-intensive universities.

Our 53,000-plus strong student community includes more than 16,400 postgraduate scholars and more than 17,000 international students from 135 countries, adding to its proud 260,000-plus alumni. The University has more than 6,600 academic and professional staff (full-time equivalent) and a $2.15 billion annual operating budget. Its major campuses are at St Lucia, Gatton and Herston, in addition to teaching and research sites around Queensland and Brisbane city. The University has six Faculties and four University-level Institutes. The Institutes, funded by government and industry grants, philanthropy and commercialisation activities, have built scale and focus in research areas in neuroscience, biomolecular and
biomedical sciences, sustainable minerals, bioengineering and nanotechnology, as well as social science research.

UQ has an outstanding track-record in commercialisation of our innovation with major technologies employed across the globe and integral to gross product sales of $11billion+.

UQ has a rapidly growing record of attracting philanthropic support for its activities and this will be a strategic focus going forward.

Organisational Environment

Researchers at the Queensland Brain Institute work to understand the development, organisation and function of the brain. We aim to understand the neural circuits in the brain, how their function results in behavioural outcomes, and how dysfunction of these circuits leads to disorders such as dementia, Parkinson’s disease and schizophrenia. We aim to develop novel therapeutic approaches to treat disorders of neural function, use our understanding of brain function to improve learning in classrooms and in the workplace, and inspire new technologies.

Established in 2003, QBI (www.qbi.uq.edu.au) is housed on the St Lucia campus of UQ. It is home to more than 450 staff and students, including 41 group leaders.

Over the past decade QBI has become known as one of the world's leading neuroscience research institutes. It has played a key role in contributing to UQ attaining the highest possible score of 5 for neuroscience, in all of the Excellence in Research for Australia (ERA) reviews (2010, 2012, 2015 and 2018), one of only two universities in Australia to achieve this.

Information for Prospective Staff

Information about life at UQ including staff benefits, relocation and UQ campuses is available online.

DUTY STATEMENT

Primary Purpose of Position

The successful applicant will be responsible for conducting research in the broad field of cognitive neuroscience, with particular emphasis on understanding the mechanisms of attention and decision making in health and disease, under the supervision of Professor Jason Mattingley. We are seeking a post-doctoral level researcher with expertise in human cognitive neuroscience, to conduct research projects involving measurement of behaviour and brain activity (using EEG and/or fMRI), and to assist with designing and carrying out experiments, conducting data analyses, publication and presentation of project findings, assistance with student supervision and teaching, and other duties as requested by the supervisor.

Duties

Specific duties of the position include, but are not limited to:

- Managing research projects on a day-to-day basis, including literature reviews, data collection/analysis/archiving, and relevant ethics processes
- Managing and supervising research assistants
- Preparing and publishing of scholarly papers
- Disseminating findings at relevant meetings
- Supervising student projects (Honours and postgraduate)
- Assistance with personnel training and data analysis on other projects as directed by the supervisor
- Complying with the University’s Code of Conduct (see the University's web site at http://www.uq.edu.au/hupp/?page=24987)
- Adopting sustainable practices in all work activities and complying with associated legislation and related sustainability responsibilities and procedures developed by the University (see the University’s web site at http://www.uq.edu.au/sustainability/responsibilities)
- Complying with the University’s Code of Conduct (see the University's web site at http://www.uq.edu.au/hupp/?page=24987)

**Reporting Relationships**

The position holder will report to Professor Jason Mattingley, Queensland Brain Institute

**SELECTION CRITERIA**

**Qualifications**

*Essential*

- PhD in experimental psychology or cognitive neuroscience

**Knowledge, Skills and Experience**

*Essential*

- Understanding of, and interest in, human perceptual and cognitive processes, including attention and decision making
- Experience in working with human participants
- Strong methodological, analytical and statistical skills
- Experience in the conduct of behavioural experiments using EEG and/or fMRI, eye tracking, and autonomic nervous system measures
- Sound knowledge of EEG analysis techniques
- Ability to organise and supervise research assistants and students
- Ability to write and publish research manuscripts in international peer-reviewed journals
- Ability to deliver conference presentations
- Ability to contribute to research program development and training

**Personal Qualities**

*Essential*

- Ability to work both independently and collaboratively as part of a team
- A high level of drive, initiative, and enthusiasm
- Strong oral communication skills
- Strong written communication skills
The University of Queensland values diversity and inclusion and actively encourages applications from those who bring diversity to the University. Please refer to the University’s Diversity and Inclusion webpage for further information and points of contact if you require additional support.

Accessibility requirements and/or adjustments can be directed to recruitment@uq.edu.au.